

WHAT IS CLAIMED IS:

---

1. A piping connector comprising:

a socket in a tubular shape attached to an end of  
5 one pipe to be connected; and

a plug in a tubular shape attached to an end of other  
pipe, wherein:

the socket is provided with a pair of notched grooves  
at peripheral faces on both sides opposed to each other,  
10 the notched grooves are mounted with a stopper  
constituting a gate-like shape;

the plug is provided with a first taper portion,  
a flat portion and a second taper portion continuously  
from a front end side thereof in a sectional shape thereof  
15 along an axial direction thereof, a groove for fitting  
the stopper is formed at a ridge portion of the second  
taper portion; and

an inner periphery of the socket is arranged with  
a seal ring for sealing an interval between the inner  
20 periphery of the socket and an outer periphery of the  
plug in airtight and in a procedure of inserting the plug  
into the socket, after the seal ring reaches an R-like  
portion shifting to the flat portion from the first taper  
portion, the stopper is constituted to be brought into  
25 contact with the second taper portion.

2. The piping connector according to Claim 1,

---

wherein

before the seal ring passes the R-like portion to  
5 ride on the flat portion, the stopper is constituted to  
be brought into contact with the second taper portion.

3. The piping connector according to Claim 1,

wherein

10 a radius of curvature R of the R-like portion in  
a section of the plug along the axial direction falls  
in a range of 15 through 50mm.